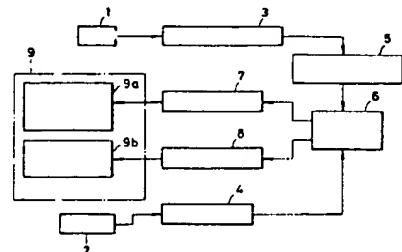


(54) DISPLAY DEVICE

(11) 5-298046 (A) (43) 12.11.1993 (19) JP
 (21) Appl. No. 4-121385 (22) 15.4.1992
 (71) HOKURIKU NIPPON DENKI SOFTWARE K.K. (72) RYOJI TATE
 (51) Int. Cl^s. G06F3/14

PURPOSE: To input data without any trouble of operability for a user skilled in numerical inputs or layout inputs.

CONSTITUTION: A graph coordinate value fetch part 3 fetches the coordinate position of a graphic layout picture 9a on an output device 9 by using a mouse 1. The fetched coordinate position is converted to internal data by a graph coordinate value/internal data conversion part 5 and held in a data holding part 6. Numerical data inputted by using a keyboard 2 are fetched as internal data by a numerical fetch part 4 and held in the data holding part 6. The internal data held in the data holding part 6 is converted to the graph coordinate value and displayed on the graphic layout picture 9a by a layout display part 7. The internal data held in the data holding part 6 is converted to a character string and displayed on a text display picture 9b by a text display part 8.

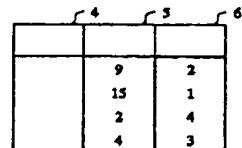
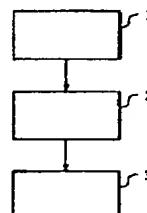


(54) MENU SYSTEM FOR VARYING ORDER TO DISPLAY WINDOW APPLICATION ITEM

(11) 5-298048 (A) (43) 12.11.1993 (19) JP
 (21) Appl. No. 4-86822 (22) 8.4.1992
 (71) NEC CORP (72) HIROTAKA ENDOU
 (51) Int. Cl^s. G06F3/14

PURPOSE: To facilitate the selection of the items of a menu using a mouse by changing the order of displaying the items from the evaluated result of the menu at the time of displaying the menu of the window application.

CONSTITUTION: The menu system which the order of displaying the items of the window application is variable is constituted of an evaluating means 1 for the menu, item display order deciding means 2 based on the evaluated result of the menu, and display means 3 for the menu. For the items of the menu, it is constituted of an item 4 column, evaluated value 5 column to indicate the evaluated result, and order 6 column to indicate the order of displaying the items of the menu corresponding to the evaluated values, and they are stored on a long term storage device such as a magnetic disk device. In this case, the item with the high evaluated value 5 is displayed at an easily selectable position. And, the evaluated value 5 section is filled out by the evaluating means 1, and the item display order deciding means 2 fills out the order 6 section based on the evaluated values 5. The display means 3 decides the items 4 from the order 6 column and displays the menu.

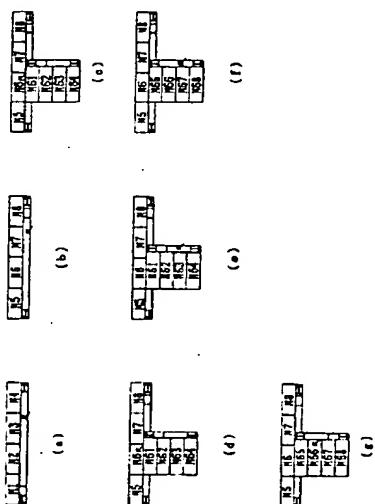


(54) MENU DISPLAY CONTROL SYSTEM

(11) 5-298049 (A) (43) 12.11.1993 (19) JP
 (21) Appl. No. 4-97647 (22) 17.4.1992
 (71) HITACHI LTD (72) SUSUMU TSUHARA(1)
 (51) Int. Cl^s. G06F3/14, G06F15/00, G06F15/02

PURPOSE: To eliminate a menu to occupy the major part of a screen even the number of menu items increases when the display region of the menu is limited to a fixed size by displaying accompanied by scroll bars.

CONSTITUTION: At an initial state (a), menu items M1-M4 are displayed on the screen. In this case, when a mouse pointer is positioned at the "next picture display region" of the horizontal scroll bar and a mouse click is performed, menu items M5-M8 are displayed (b). When the mouse pointer is positioned at the desired M6 and a button is pushed, the menu item M6 is black-and-white inverted, and menu items M61-M64 of the low-order are pull down displayed. Next, when the mouse pointer is positioned at the "next picture display instruction region" of the vertical scroll bar (e) and the mouse click is performed, menu item M65-M68 are displayed (f). Then, the mouse pointer is positioned at the desired menu item 66 (g), the button is pushed, and menu selection is completed.



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